云 南 植 物 研 究 1989; 11(3): 311—316
Acta Botanica Yunnanica

四川产紫堇属四新种

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FOUR NEW SPECIES OF CORYDALIS FROM SICHUAN

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关键词 新分类群；紫堇属；四川
Key words New taxa; *Corydalis*; Sichuan

椭果黄堇 新种 图1

Corydalis ellipticarpa C. Y. Wu et Z. Y. Su sp. nov.

Affinis *C. hemsleyanae* Franch. et Prain, sed caulibus scapiformibus, floribus flavis, majoribus, petalo antico basi saccato facile differt.

Herba caespitosa circ. 30 cm longa. Rhizoma circ. 5—10 mm longum, 10 mm crassum, radicibus fibrosis, numerosis, fasciculatis. Caulis 1 usque numerosus, scapiformis, simplex, efoliolatus, interdum basi unifoliatus. Folia basalia numerosa, circ. 20 cm longa, petiolis circ. 15 cm longis basi marginato-expansis, plus minusve carnosulis, in sicco purpureo-brunneis, laminis circ. 5 cm longis 5—6 cm latis, viridibus, subtus glaucescentibus, biternatis, pinnis brevipetiolulatis, pinnulis sessilibus vel subsessilibus, 2.5—3.5 cm longis, 2—3 cm latis bitripartitis, segmentis lanceolatis, saepe trilobatis. Inflorescentia racemosa, floribus numerosis, laxis. Bractae infimae foliaceae circ. 3—3.5 cm longae, 3 cm latae, brevipetiolulatae, bitripartitae, ceterae cuneatae, circ. 2 cm longae, 1 cm latae, lobatae vel incisae. Pedicelli 1—2 cm longi. Sepala squamiformia, triangularia circ. 1 mm longa, plus minusve denticulata. Corolla flava, horizontalis. Petalum posticum 2.5—3 cm longum, 5 mm latum, ecristatum usque leviter cristatum, calcari circ. 1.6—2 cm longo, infundibulari, subrecto vel ad extremum leviter curvato, glande nectarifera circ. 6 mm longa. Petalum anticum postico simile, ungue lato, navicu-

1988-05-23收稿

lari basi in saccatum ut in dicentra decurrenti. Petala interiora cristata, ungue cuneato laminam subaequilongo. Stamina anguste elliptica. Stigma suborbiculare, papillis 8. Capsula elliptica 1.5—2 cm longa, 4—6 mm lata, seminibus numerosis biseriatis.

Sichuan: Jinchuan (金川), alt. 4000 m. 10 Jun. 1978, Aba Institutum Medico-gubernatum(阿坝州药检所) 458(Typus in Herbarium of Sichuan Institute of Chinese Materia Medica); Barkam (马尔康), in sylvis usque ad 3200 m supra mere. 22 Maj. 1957 Li Xin (李馨) 71121 (KUN).

本种接近 *C. hemsleyana*, 但茎花葶状，花黄色，较大，下花瓣基部囊状而易于区别。过去Fedde 曾认为 *C. hemsleyana*与*C. incisa* 亲缘相近，因为它们具有相似的花色和二回三出的叶，但从柱头和果实形态看它们却有较大的差异。本种与 *C. hemsleyana* 可能代表了一个新的组，间于Sect. *Incisae sensu* Fedde和Sect. *Asterostigmata* Fedde之间。

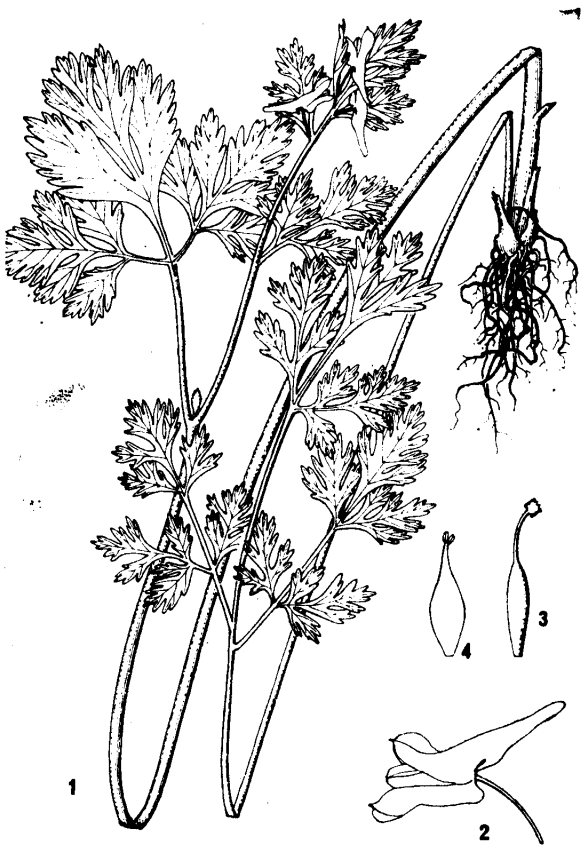

图1 椭果黄堇 *Corydalis ellipticarpa* C. Y. Wu et Z. Y. Su 1.植株；2.花；3.雌蕊和柱头；4.雄蕊。（杨建昆绘）

毛被黄堇 新种 图2，7—12.

Corydalis hebephylla C. Y. Wu et Z. Y. Su sp. nov. (Sect. *Capnogorium* (Bernh.) Endlicher).

Affinis *C. potaninii* Maxim., quae differt floribus majoribus, petalis exterioribus alte cristatis, capsula moniliformi.

Herba perennis caespitosa, 40—50 cm alta. Radix ignota. Caulis erectus striatus, foliatus superne ramosus. Folia caulina inferiora circ. 20 cm longa, laminis circ. 10 cm longis, 8 cm latis, viridibus, subtus glaucescentibus, paleaceis, pinnatisectis, pinnis 3—7, terminalibus majoribus circ. 6 cm longis, 5 cm latis, lateralibus paulo minoribus, circ. 5 cm longis, 4 cm latis, omnibus tripartitis vel inaequaliter crasso-serratis. Inflorescentia racemosa 4—7 cm longa, florious

numerosis, congestis. Bracteae foliaceae, infimae circ. 2 cm longae, 2 cm latae tripartitae, sursum lanceolatas integras gradatim transientes. Pedicelli 1—1.5 cm longi. Sepala minuta, ovata, sparsim denticulata, apice caudata. Corolla flava apice purpurascens, horizontalis, circ. 1.9 cm longa. Petalum posticum ecristatum, calcari cylindrico laminam subaequilongo, glande nectarifera usque ad apicem subattingenti. Petalum anticum circ. 1.2 cm longum postico simile, ungue angusta. Petala interiora circ. 1.1 cm longa, ungue laminam subaequilonga. Stamina oblanceolata prope apicem filiformom abrupte transientia. Ovarium lineare vel oblongum, stylum subaequilongum; stigma suborbiculare, papillis 8. Capsula oblonga, circ. 1 cm longa 3 mm lata, seminibus 3—6, uniseriatis.

Sichuan: Jinchuau (金川), in pratis usque ad 4400 m supra mere. 8 Aug. 1958, Li Xin (李馨) 78342 (Typus SZ.)

本种接近*C. potaninii*，后者花较大，外花瓣具高鸡冠突起，蒴果串珠状，而与本种不同。

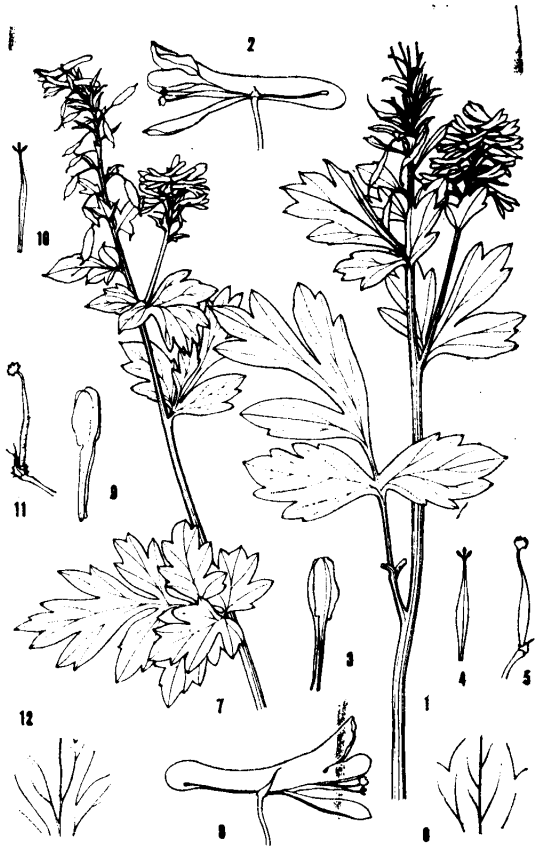

图 2　1—6 假毛被黄堇 *Corydalis hebephylla* var. *glabresoens* C. Y. Wu et Z. Y. Su 1.花果枝；2 花；3.内花瓣；4.雄蕊；5.雌蕊；6.叶背面（放大）。7—12. 毛被黄堇*Corydalis hebephyllo* C. Y. Wu et Z. Y. Su 7.花果枝；8.花；9.内花瓣；10.雄蕊；11.雌蕊；12.叶背面（放大）。（吴锡麟绘）

假毛被黄堇　新变种　图 2，1—6

var. **glabrescens** C. Y. Wu et Z. Y. Su var. nov.

A typo differt foliis glabris subtus non paleaceis, floribus rosco-purpurascentibus in sicco.

Sichuan: Maowen (茂汶), 1952, C. Ho (何铸) et T. L. Chow (周子林) 13760 (Typus JSBI)。

本变种叶光滑，无糠粃状鳞片而与原变种不同。

川西黄堇　新种　图 3

Corydalis grandiflora C. Y. Wu et Z. Y. Su sp. nov. (Sect. *Capnogorium* (Bernh.) Endlicher).

Affinis *C. potaninii* Maxim., quae difiert foliis majoribus, subtus glaucescentibus, floribus minoribus, calcaribus gracilioribus longioribusque, ovariis linearibus.

Herba perennis caespitosa carnosula caesio-viridis, 25—30 cm alta. Radix phalaris circ. 10 cm longa, 1 cm crassa, in vetustate evacuata, systematem vascularem reticulatum tantum remanens. Caulis 1—4, ab axillis foliorum basalium enatus, simplex, supra medium bi-vel trifoliatus. Folia basalia 2—5, caulibus paulo breviora, petiolis lamina brevi-oribus, laminis pinnatisectis, pinnis 5—7, late ovatis, terminalibus majoribus, 4—5 cm longis, 3—4 cm latis, brevi-petiolulatis, lateralibus minoribus, sessilibus circ. 3 cm longis, 2 cm latis, omnibus tripartitis, segmentis bi-vel trilobatis usque integris. Folia caulina basalibus similia, sed minora. Inflorescentia racemosa 4—6 cm longa, floribus numerosis, congestis. Bracteae magnae, inferiores late ovatae, circ. 3 cm longae, 2—2.5 cm latae, tripartitae usque trilobatae, superiores oblongae usque spathulatae integrae, circ. 2 cm longae, 5 mm latae. Pedicelli circ. 1.5 cm longi. Flores sordide flavi, horizontales. Sepala semiorbicularia circ. 4 mm longa, apice caudata, margine denticulata. Petalum posticum 2.5—3 cm longum, 4 mm latum, crista alta, integra, apicem petali superanti, calcari cylindrico circ. 8—10 mm longo, 4 mm lato, glande nectarifera usque ad basin calcaris subattingenti. Petalum anticum postico simile, sed superans, ungue basi subsaccata. Petala interiora inconspicue cristata, ungue laminam subaequilonga. Stamina lanceolata tricostata. Ovarium obovatum stylo paulo longius; stigma suborbiculare, papillis 8. Flores

图3 川西黄堇 *Corydalis grandiflora* C. Y. Wu et Z. Y. Su 1.花枝; 2.花; 3.内花瓣; 4.雄蕊; 5.雌蕊。(张宝福绘)

mense Julio aperti.

Sichuan: Danba (丹巴), 17 Jul. 1930 Huang Zhi Ping et al, (黄治平等) 01438 (Typus KUN); Kangding (康定), in clivis et fissuris petrae, 5 Aug. 1940 K. L. Chu (曲桂龄) 7508.

本种接近 *C. potaninii*，后者的叶较大，下面苍白色，花较小，距较细长，子房线形，而与本种不同。

独活叶黄堇　新种　图 4

Corydalis heracleifolia C. Y. Wu et Z. Y. Su sp. nov. (Sect. *Bipapillata* Liden).

Affinis *C. semenovii* Regel, sed floribus minoribus sordide sanguineis, foliis majoribus heracleoidibus facile differt.

Herba erecta, robusta circ. 1 m alta. Radix phalaris brunnea, circ. 15 cm longa, 1 cm crassa, extus epidermibus laceratis saepe obtecta. Caulis cavernosus, striatus, circ. 5 mm crassus, foliatus ramosusque. Folia caulina heracleoida, inferiora longipetiolata, superiora brevipetiolata usque subsessilia, laminis bipinnatisectis viridibus, subtus glaucescentibus, pinnis 2—3-jugatis, alternatis usque oppositis, pinnulis 3—5, terminalibus majoribus circ. 6—14 cm longis, 5—7 cm latis, tripartitis, lateralibus minoribus circ. 4—7 cm longis, 3—4 cm latis, inaequaliter 2—3-partitis vel lanceolatis, omnibus crasse dentatis vel incisis. Inflorescentia 5—10 cm longa, floribus numerosis. Bracteae lanceolatae circ. 6 mm longae, 2 mm latae, integrae vel apice plus minusve incisae. Sepala anguste lanceolata circ. 4 mm longa, 1 mm lata, integra. Corolla sordide sanguinea, horizontalis, 8—10 mm longa. Petalum posticum acuminatum, ecristatum, calcari saccato, circ. 2 mm longo, glande nectarifera circ. 1 mm longa,

图 4　独活叶黄堇 *Corydalis heracleifolia* C. Y. Wu et Z. Y. Su 1.花果枝；2.花；3.内花瓣；4.雄蕊；5.雌蕊和柱头。（吴锡麟绘）

apice crassiuscula. Petalum anticum 7—8 mm longum postico simile. Petala interiora ovato-oblonga, leviter cristata, unguibus laminam subaequantibus. Stamina lanceolata. Ovarium lineare; stylus ovario brevior; stigma divaricatum, cruribus 2, inter quoque segmento solum papillato. Capsula linearis circ. 2—4 cm longa, 2—3 mm lata, leviter curvata, plus minusve noduliformis.

Sichuan: Heishui (黑水), alt. 3400 m, "fruit green with numerous seeds", 17 Aug. 1957, s. col. 23836 (KUN); Lixian (理县), "under forest, about 1 m high with flowers and fruits", 16 Sep. 1952, C. Ho (何铸) et T. L. Chow (周子林) 14024 (typus SZ); ibid. alt. 2960 m," about 40—60 cm high, s. col. 5520 (Sichuan Institute of Chinese Materia Midica, Chongqing); Zoige (若尔盖), alt. 2800 m, "in valley beside forest, about 1.5 m high with fruits", 12 Aug. 1960, Sichuan exped. of Chinese Materia Midica 20539 (JSBI); Zamtang (壤塘), alt. 3400 m, "beside road, with dark-brown root and flowers", 3 Jul.1979, Aba institute of Drug Control 645 (Sichuan Institute of Chinese Materia Medica, Chongqing)

本种亲缘近*C. semenovii*，区别是花较小，污血红色，叶较大，独活叶状。